

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 1-56.

Please insert new Claims 57-78 as follows:

57. (New) An image reading system connectable to a control apparatus through an interface and an image reading apparatus, comprising a plurality of light sources of mutually different light emission wavelengths, and a photoelectric conversion unit which photoelectrically converts an image of an object illuminated by said plurality of light sources, wherein said control apparatus includes a memory which stores a light source control program corresponding to a first mode and another light source control program corresponding to a second mode for controlling turn-on of said plurality of light sources in a manner different from that in the first mode, and a turn-on control unit which reads out from the memory one of the light source control programs, and effects control of turn-on of said plurality of light sources in one of the first mode and the second mode, through said interface according to the light source control program read out from said memory.

58. (New) A system according to Claim 57, wherein in the first mode and the second mode, said plurality of light sources are controlled so as to be turned on in a predetermined order.

59. (New) A system according to Claim 57, wherein in the first mode and the second mode, said plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of said plurality of light sources do not overlap with each other.

60. (New) A system according to Claim 57, wherein in the first mode, a signal accumulated in said photoelectric conversion unit in response to turn-on of each of said light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in said photoelectric conversion unit throughout turn-on of said plurality of light sources is read out in the first line period once every time said plurality of light sources are turned on in a predetermined order.

61. (New) A control apparatus connectable through an interface to an image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, and a photoelectric conversion unit which photoelectrically converts an image of an object illuminated by the plurality of light sources, said control apparatus comprising:

a memory which stores a light source control program corresponding to a first mode, and another light source control program corresponding to a second mode for controlling turn-on of the plurality of light sources in a manner different from that in the first mode; and

a turn-on control unit which reads out from said memory one of the light source control programs, and effects control of turn-on of the plurality of light sources, in one of the first mode and the second mode, through the interface according to the light source control program read out from said memory.

62. (New) An apparatus according to Claim 61, wherein in the first mode and the second mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

63. (New) An apparatus according to Claim 61, wherein in the first mode and the second mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

64. (New) An apparatus according to Claim 61, wherein in the first mode, a signal accumulated in the photoelectric conversion unit in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in the photoelectric conversion unit throughout turn-on of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

65. (New) An image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, a photoelectric conversion unit which photoelectrically converts an image of an object illuminated by said plurality of light sources, and an interface connectable to a control apparatus,

wherein said plurality of light sources further comprises a receiving unit which receives an instruction from the control apparatus from a program

corresponding to one of a first mode and a second mode, and turn-on means for effecting turn-on control according to the received instruction.

66. (New) An apparatus according to Claim 65, wherein in both the first mode and the second mode, said plurality of light sources are controlled so as to be turned on in a predetermined order.

67. (New) An apparatus according to Claim 65, wherein in both the first mode and the second mode, said plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of said plurality of light sources do not overlap with each other.

68. (New) An apparatus according to Claim 65, wherein in the first mode, a signal accumulated in said photoelectric conversion unit in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second mode, a signal accumulated in said photoelectric conversion unit throughout turn-on of said plurality of light sources is read out in the first line period once every time said plurality of light sources are turned on in a predetermined order.

69. (New) A control method of a control apparatus connectable through an interface to an image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, and photoelectric conversion means for

photoelectrically converting an image of an object illuminated by the plurality of light sources, said control method comprising:

a read-out step of reading out from a memory included in the control apparatus, a program corresponding to a selected mode in each of case that a first read mode is selected and case that a second read mode for effecting light source turn-on control different from that of the first read mode; and

a turn-on control step of effecting control of turn-on of the plurality of light sources corresponding to the selected mode, through the interface according to the program read out from the memory.

70. (New) A method according to Claim 69, wherein in the first read mode and the second read mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

71. (New) A method according to Claim 69, wherein in both the first read mode and the second read mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

72. (New) A method according to Claim 69, wherein in the first read mode, a signal accumulated in the photoelectric conversion means in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second read mode, a signal accumulated in the photoelectric conversion means throughout turn-on

of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

73. (New) A storage medium for computer-readably storing a program for executing a control method defined in Claim 69 in a control apparatus.

74. (New) A control method of an image reading apparatus comprising a plurality of light sources of mutually different light emission wavelengths, photoelectric conversion means for photoelectrically converting an image of an object illuminated by the plurality of light sources, and an interface connectable to a control apparatus, wherein the plurality of light sources receives an instruction from the control apparatus, which is based on a program corresponding to one of a first read mode and a second read mode, and effects turn-on control according to the received instruction.

75. (New) A method according to Claim 74, wherein in both the first read mode and the second read mode, the plurality of light sources are controlled so as to be turned on in a predetermined order.

76. (New) An apparatus according to Claim 74, wherein in the first read mode and the second read mode, the plurality of light sources are turned on in a predetermined order in such a manner that turn-on time periods of the plurality of light sources do not overlap with each other.

77. (New) A method according to Claim 74, wherein in the first read mode, a signal accumulated in the photoelectric conversion means in response to turn-on of each of the light sources is read out sequentially in a first line period, and in the second read mode, a signal accumulated in the photoelectric conversion means throughout turn-on of the plurality of light sources is read out in the first line period once every time the plurality of light sources are turned on in a predetermined order.

78. (New) A storage medium for computer-readably storing a program for executing a control method defined in Claim 74 in an image reading apparatus.